

STRATIFIED SCAVENGING 2-CYCLE ENGINE

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EC Classification:

Equivalents:

Abstract

PROBLEM TO BE SOLVED: To fill the periphery of an ignition plug with a sufficient air fuel mixture with uniform concentration and to enable satisfactory scavenging action by providing an air feed passage in a scavenging passage between a first scavenging port provided at right angles to an exhaust port and a crank chamber, and sufficiently enlarging the capacity of the scavenging passage.

SOLUTION: In addition to a scavenging port 9a opened opposite to an exhaust port 13a, two scavenging ports 109a are provided opposite to each other in regions substantially at right angles to the exhaust port 13a. The scavenging port 109a is communicated with a scavenging passage 109e, and the lower end of each passage 109e is connected to the scavenging passage 109C horizontally provided on a crankcase 5. An air feed passage 10 to which an air outlet of an air cleaner 11 and the passage 10 are connected is provided and an air control valve 20 is provided on the upstream thereof. The capacity of the long scavenging passage extending from the scavenging passage 109e through the scavenging holes 109c, 109d and 109b to a crank chamber 15a is set larger than the air quantity fed from the air feed passage 10 during one cycle.

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【図7】 図6のY矢視図である。

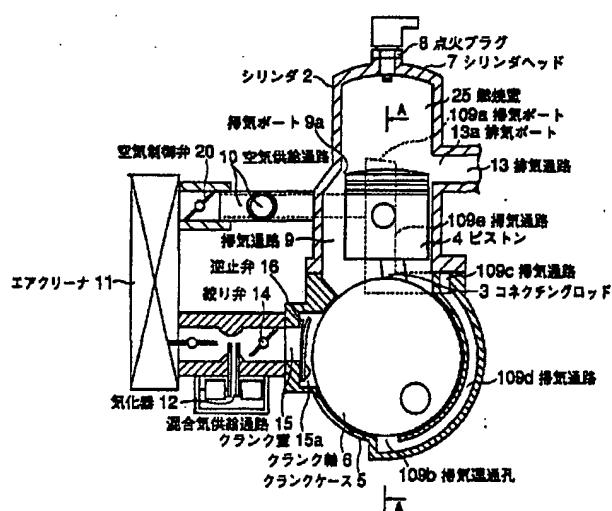
【図8】 従来技術に係る層状掃気2サイクルガソリンエンジンを示す図1対応図である。

【符号の説明】

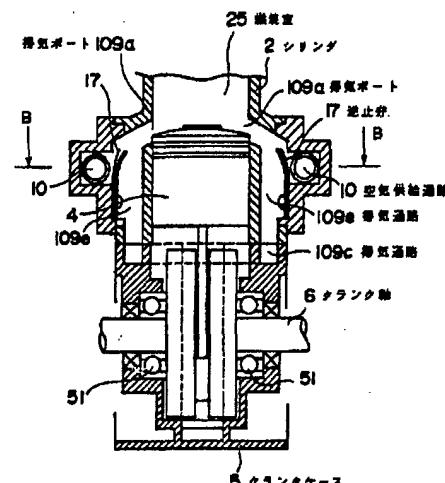
- 2 シリンダ
- 3 コネクティングロッド
- 4 ピストン
- 4 a 凹部
- 4 b 凸部
- 5 クランクケース
- 6 クランク軸
- 7 シリンダヘッド
- 8 点火プラグ
- 9 掃気通路

- 9 a, 109 a 掃気ポート
- 10 空気供給通路
- 11 エアクリーナ
- 12 気化器
- 13 排気通路
- 13 a 排気ポート
- 14 絞り弁
- 15 混合気供給通路
- 15 a クランク室
- 16, 17 逆止弁
- 20 空気制御弁
- 25 燃焼室
- 109 b 掃気連通路
- 109 c, 109 d, 109 e 掃気通路

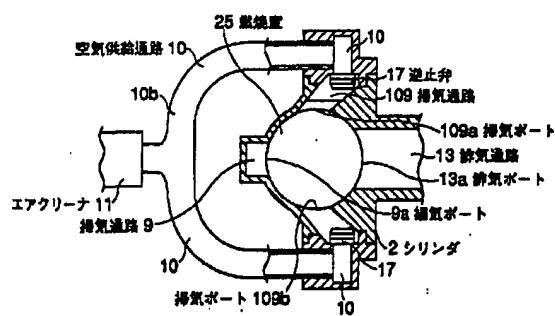
【図1】



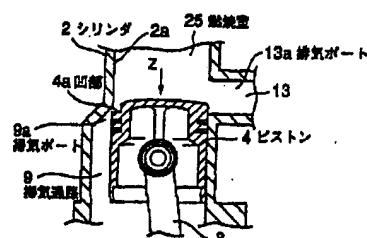
【図2】



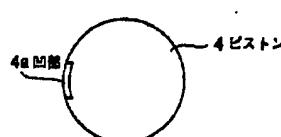
【図3】



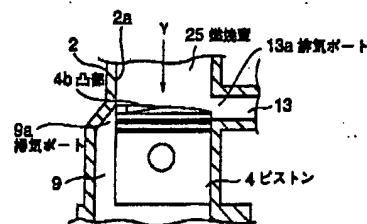
【図4】



【図5】



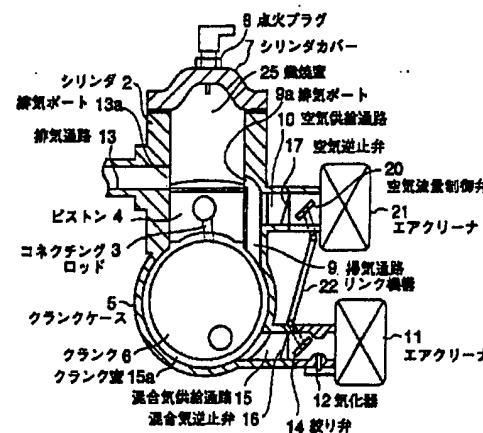
【図6】



【図7】



【図8】



フロントページの続き

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AD29 AF02

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